## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A method for producing a single crystal with pulling the single crystal from a raw material melt in a chamber by Czochralski method, wherein when during growing the single crystal, where a pulling rate is defined as V (mm/min) and a temperature gradient of the crystal in the direction of pulling axis at the vicinity of a solid-liquid interface is defined as G (°C/mm) during growing a straight body of the single crystal, the temperature gradient G of the crystal is controlled by changing at least two or more of pulling conditions including a diameter of the straight body of the single crystal, a rotation rate of the single crystal during pulling the single crystal, a flow rate of an inert-gas introduced into the chamber, a position of a heater heating the raw material melt and a distance between a melt surface of the raw material melt and a heat insulating member provided in the chamber so as to oppose to the surface of the raw material melt, thereby V/G (mm²/°C·min) which is a ratio of the pulling rate V and the temperature gradient G of the crystal is controlled so that a single crystal including a desired-first defect region is grown.
- (Original) The method for producing a single crystal according to Claim 1,
  wherein the single crystal is pulled with keeping the pulling rate V constant.
- 3. (Previously Presented) The method for producing a single crystal according to Claim 1, wherein V/G is controlled so that the defect region of the single crystal to be grown is N region over a whole plane in a radial direction.
  - 4-7. (Canceled)
- 8. (Previously Presented) The method for producing a single crystal according to Claim 2, wherein V/G is controlled so that the defect region of the single crystal to be grown is N region over a whole plane in a radial direction.

- 9. (Previously Presented) The method for producing a single crystal according to Claim 1, wherein at least two or more of the pulling conditions are changed automatically according to changing conditions obtained by performing an experiment beforehand.
- 10. (Previously Presented) The method for producing a single crystal according to Claim 2, wherein at least two or more of the pulling conditions are changed automatically according to changing conditions obtained by performing an experiment beforehand.
- 11. (Previously Presented) The method for producing a single crystal according to Claim 3, wherein at least two or more of the pulling conditions are changed automatically according to changing conditions obtained by performing an experiment beforehand.
- 12. (Previously Presented) The method for producing a single crystal according to Claim 8, wherein at least two or more of the pulling conditions are changed automatically according to changing conditions obtained by performing an experiment beforehand.
- 13. (Previously Presented) The method for producing a single crystal according to Claim 1, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- 14. (Previously Presented) The method for producing a single crystal according to Claim 2, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- 15. (Previously Presented) The method for producing a single crystal according to Claim 3, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- 16. (Previously Presented) The method for producing a single crystal according to Claim 8, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.

- 17. (Previously Presented) The method for producing a single crystal according to Claim 9, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- 18. (Previously Presented) The method for producing a single crystal according to Claim 10, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- 19. (Previously Presented) The method for producing a single crystal according to Claim 11, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- 20. (Previously Presented) The method for producing a single crystal according to Claim 12, wherein the changing conditions that change at least two or more of the pulling conditions are adjusted among batches for producing the single crystal.
- (Previously Presented) The method for producing a single crystal according to Claim 1, wherein a silicon single crystal is pulled as the single crystal.
- (Previously Presented) The method for producing a single crystal according to Claim 2, wherein a silicon single crystal is pulled as the single crystal.
- 23. (Previously Presented) A single crystal produced by the method for producing a single crystal according to Claim 1.
- 24. (Previously Presented) A single crystal produced by the method for producing a single crystal according to Claim 2.